

Figure 1

		Bcl-2 (N-19)																				
Bcl2α	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
α591	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
α588	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
α480	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
α633	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
Bcl2β	atg gcg cac gct ggg aga acg ggg tac	gac aac cgg gag ata gtg atg aag tac atc cat	60																			
β489	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
β474	atg gcg cac gct ggg aga acg ggg tac	gac aac cgg gag ata gtg atg aag tac atc cat	60																			
β420	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
β315	atg gcg cac gct ggg aga aca ggg tac	gat aac cgg gag ata gtg atg aag tac atc cat	60																			
		BCL-2 (AB-2)																				BH4
Bcl2α	tat aag ctg tcg cag agg ggc tac gag tgg	gat gcg gga gat gtg ggc gcc gcg ccc cgg	120																			
α591	tat aag ctg tcg cag agg ggc tac gag tgg	gat gcg gga gat gtg ggc gcc --- --- ---	111																			
α588	tat aag ctg tcg cag agg ggc tac gag tgg	gat gcg gga gat gtg ggc gcc --- --- ---	111																			
α480	tat aag ctg tcg cag agg ggc tac --- ---	--- --- --- --- --- --- ---	84																			
α633	tat aag ctg tcg cag agg ggc <u>gcg gcg gtc</u>	<u>gtc gag acc aga acg gcc ttt cca agg gcg</u>	120																			
Bcl2β	tat aag ctg tcg cag agg ggc tac gag tgg	gat gcg gga gat gtg ggc gcc gcg ccc cgg	120																			
β489	tat aag ctg tcg cag agg ggc tac gag tgg	gat gcg gga gat gtg ggc gcc --- --- ---	111																			
β474	tat aag ctg tcg cag agg ggc <u>cac gag tgg</u>	gat gcg gga gat gtg ggc gcc gcg ccc cgg	120																			
β420	tat aag ctg --- --- --- ---	--- --- --- --- --- --- ---	69																			
β315	tat aag ctg <u>tcg</u> cag agg --- ---	--- --- --- --- --- --- ---	78																			
		Bcl-2 (Ab-1)																				BH4
Bcl2α	ggg gcc gcc ccc gcg ccg ggc atc ttc tcc tcg cag ccc ggg	cac acg ccc cat <u>aca gcc</u>	180																			
α591	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	111																			
α588	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	111																			
α480	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	84																			
α633	<u>gcg gcg gcg gtt aca aca gct acg gtg gtt acg gcg</u>	--- --- --- --- --- --- ---	156																			
Bcl2β	ggg gcc gcc ccc gca ccg ggc atc ttc tcc tcg cag ccc ggg	cac acg ccc cat <u>gca gcc</u>	180																			
β489	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	111																			
β474	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	120																			
β420	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	69																			
β315	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	78																			
		Bcl-2 (Ab-4)																				
Bcl2α	gca tcc cgg gac ccg gtc gcc agg acc tcg ccg ctg cag acc ccg gct gcc ccc ggc gcc		240																			
α591	--- --- --- --- --- --- ---		111																			
α588	--- --- --- --- --- --- ---		111																			
α480	--- --- --- --- --- --- ---		84																			
α633	--- --- --- --- --- --- ---		156																			
Bcl2β	gca tcc cgc gac ccg gtc gcc agg acc tcg ccg ctg cag acc ccg gct gcc ccc ggc gcc		240																			
β489	--- --- --- --- --- --- ---		111																			
β474	--- --- --- --- --- --- ---		120																			
β420	--- --- --- --- --- --- ---		69																			
β315	--- --- --- --- --- --- ---		78																			
		Bcl-2 (BD) , Bcl-2 (C-2)																				
Bcl2α	gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg	gtc cac ctg acc ctc cgc cag gcc	300																			
α591	gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg	gtc cac ctg acc ctc cgc cag gcc	171																			
α588	--- gcg ggg cct gcg ctc agc ccg gtg cca cct gtg	gtc cac ctg acc ctc cgc cag gcc	168																			
α480	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	84																			
α633	--- gcg ggg cct gcg ctc agc ccg gtg cca cct gtg	gtc cac ctg acc ctc cgc cag gcc	213																			
Bcl2β	gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg	gtc cac ctg gcc ctc cgc <u>caa</u> gcc	300																			
β489	gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg	gtc cac ctg acc ctc cgc cag gcc	171																			
β474	--- --- --- --- --- --- ---	gtc cac ctg acc ctc cgc cag gcc	156																			
β420	--- --- --- --- --- --- ---	gtc cac ctg acc ctc cgc cag gcc	102																			
β315	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	78																			
		BH1																				

Bcl2 α	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agg cag ctg cac	360
α 591	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	231
α 588	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	228
α 480	---	---	---
α 633	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	273
Bcl2 β	ggc gac gac ttc tcc cgc cgc	tac cgc ggc gac ttc gcc gag atg tcc agc cag ctg cac	360
β 489	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	231
β 474	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	216
β 420	ggc gac ggc ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	162
β 315	---	---	---

BH1

Bcl2 α	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	420
α 591	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	291
α 588	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	288
α 480	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	180
α 633	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	333
Bcl2 β	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	420
β 489	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	291
β 474	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	276
β 420	ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	222
β 315	---	---	---

BH2

Bcl2 α	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	480
α 591	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	351
α 588	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	348
α 480	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	240
α 633	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	393
Bcl2 β	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	480
β 489	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	351
β 474	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	336
β 420	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	282
β 315	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	177

BH2

Bcl2 α	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	540
α 591	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	411
α 588	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	408
α 480	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	300
α 633	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	453
Bcl2 β	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	540
β 489	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	411
β 474	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	396
β 420	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	342
β 315	agc gtc aac cgg gag atg tgc ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	237

Bcl2 α	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	---	---	585
α 591	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	---	---	456
α 588	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	---	---	453
α 480	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	---	---	345
α 633	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	---	---	498
Bcl2 β	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	600				
β 489	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	471				
β 474	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	456				
β 420	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	402				
β 315	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	297				

BH3

Bcl2 α	---	gat gcc ttt gtg gaa ctg tac	ggc ccc agc atg cgg cct ctg	627
α 591	---	gat gcc ttt gtg gaa ctg tac	ggc ccc agc atg cgg cct ctg	498
α 588	---	gat gcc ttt gtg gaa ctg tac	ggc ccc agc atg cgg cct ctg	495
α 480	---	gat gcc ttt gtg gaa ctg tac	ggc ccc agc atg cgg cct ctg	387
α 633	---	gat gcc ttt gtg gaa ctg tac	ggc ccc agc atg cgg cct ctg	540
Bcl2 β	gat gtg agt ctg ggc tga			618
β 489	gat gtg agt ctg ggc tga			489
β 474	gat gtg agt ctg ggc tga			474
β 420	gat gtg agt ctg ggc tga			420
β 315	gat gtg agt ctg ggc tga			315

Bcl2 α	ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc	687
α 591	ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc	558
α 588	ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc	555
α 480	ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc	447
α 633	ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc	600

Bcl2 α	atc acc ctg ggt gcc tat ctg ggc cac aag tga	720
α 591	atc acc ctg ggt gcc tat ctg ggc cac aag tga	591
α 588	atc acc ctg ggt gcc tat ctg ggc cac aag tga	588
α 480	atc acc ctg ggt gcc tat ctg ggc cac aag tga	480
α 633	atc acc ctg ggt gcc tat ctg ggc cac aag tga	633

FIGURE 2

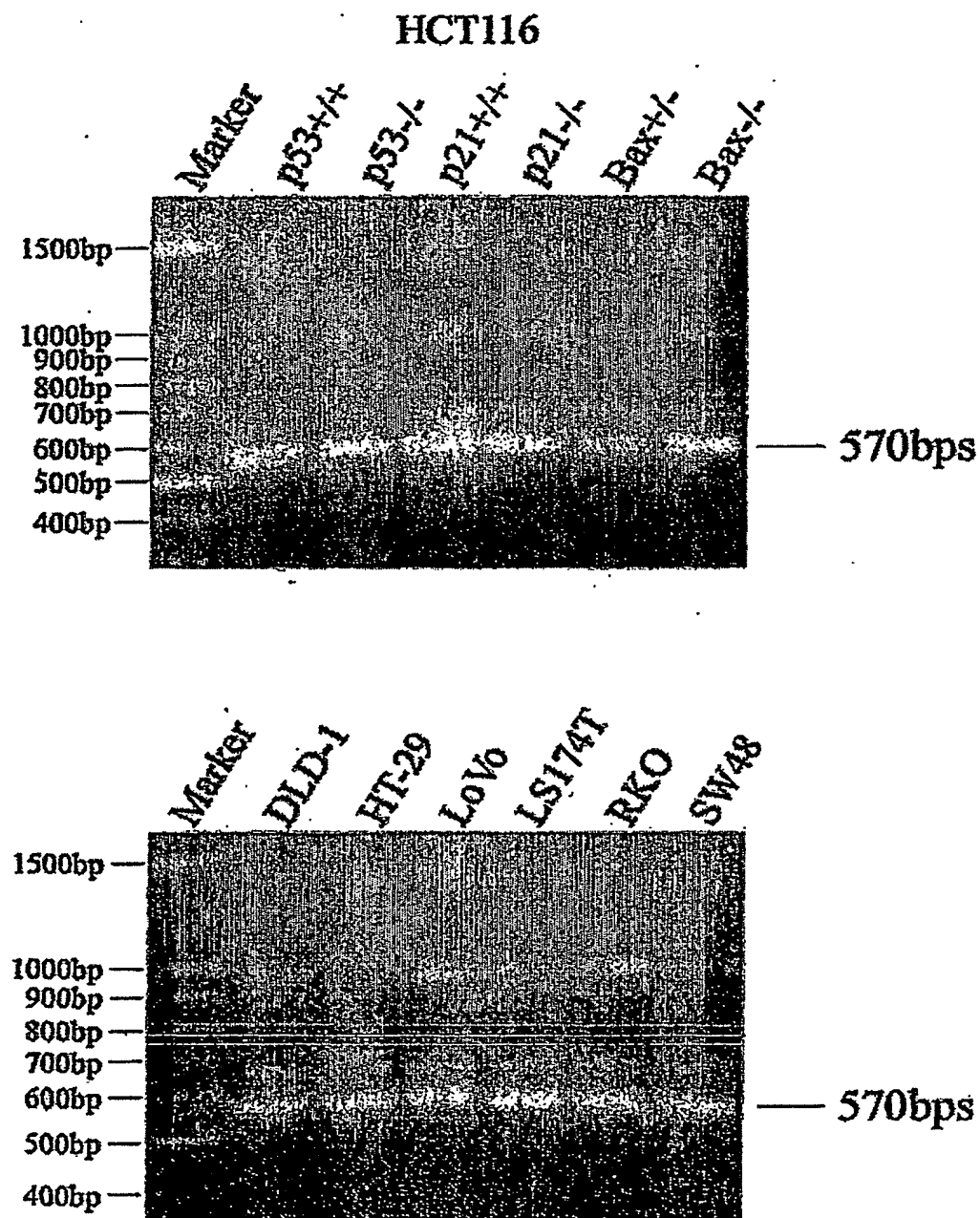


FIGURE 3

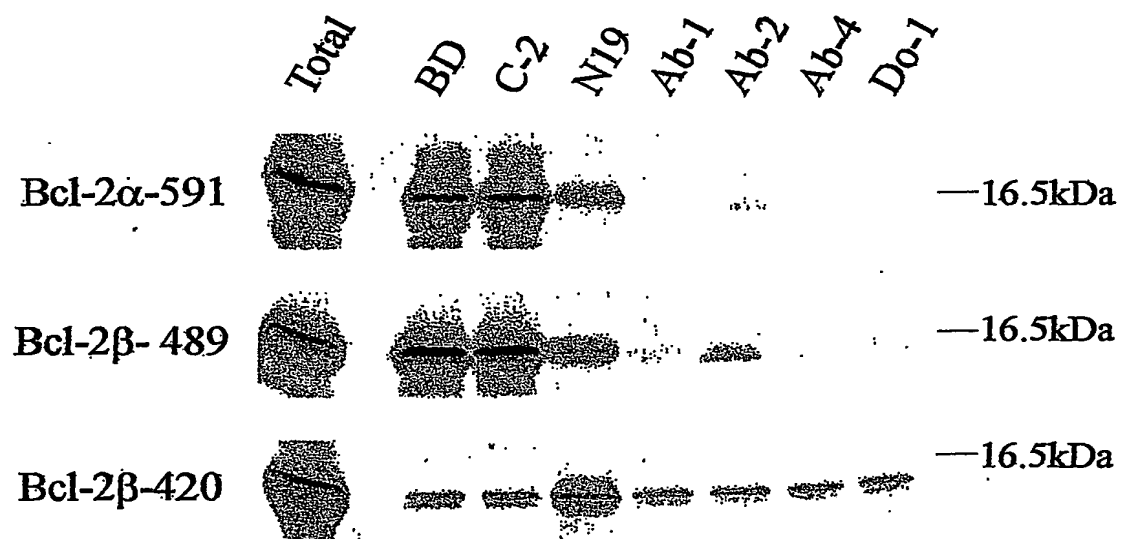


Figure 4

	HCT	HCT p53-/-	HCT Bax+/-	HCT Bax-/-	HCT p21+/+	HCT P21-/-	RKO	LoVo	LS174T	SW48
$\alpha 591$	Φ	Φ	Φ	Φ	Φ			Φ		Φ
$\alpha 588$						Φ				
$\alpha 480$							Φ			
$\alpha 633$							Φ			
$\beta 489$		Φ								
$\beta 474$									Φ	
$\beta 420$					Φ					
$\beta 315$							Φ			

FIGURE 5 ;

